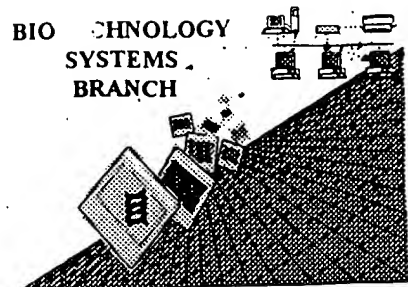


BEST AVAILABLE COPY



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/947,081A
Source: OIPE
Date Processed by STIC: 08/09/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/847,081A
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 _____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 _____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 _____ Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 _____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input checked="" type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 _____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 _____ Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 _____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

OIPE

RAW SEQUENCE LISTING

DATE: 08/09/2001

PATENT APPLICATION: US/09/847,081A

TIME: 12:44:02

Input Set : A:\Mo6314 sequence-TEXT.txt

Output Set: N:\CRF3\08092001\I847081A.raw

3 <110> APPLICANT: BAYER AG
 5 <120> TITLE OF INVENTION: DNA encoding the tobacco phytoene synthase
 7 <130> FILE REFERENCE: Le A 34 326
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/847,081A
 C--> 10 <141> CURRENT FILING DATE: 2001-05-02
 12 <160> NUMBER OF SEQ ID NOS: 10
 14 <170> SOFTWARE: PatentIn Ver. 2.1
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 1728
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Nicotiana tabacum
 21 <220> FEATURE:
 22 <221> NAME/KEY: CDS
 23 <222> LOCATION: (244)..(1566)
 25 <400> SEQUENCE: 1

26	agaaacccag	aaagaacaac	aggttttgct	tcttggtgat	gagtgcat	tttgcctctgctt	60
28	gtgtaaggca	aagtcggttc	actttcttat	atccgatttt	tataatcggt	gaaattagtg	120
30	gatagactct	agtggatata	tacaagtatt	ggttttttga	taaaataggc	tgaggtgaga	180
32	aggtaacata	aaggaaagac	aaaaacttgg	gaattgtttt	agaccaccga	ggtttcttgt	240
34	ttc atg agc	atg tct gtt	gct ttg ttg	tgg gtt gtt	tct ccc act	tcc	288
35	Met Ser Met	Ser Val Ala	Leu Leu Trp	Val Val Ser	Pro Thr Ser		
36	1	5	10	15			
38	gag gtc tgc	aat ggg aca	gga ttg ttg	gat tca gtc	cga gaa gga	aac	336
40	Glu Val Ser	Asn Gly Thr	Gly Leu Leu	Asp Ser Val	Arg Glu Gly	Asn	
41	20	25	30				
43	cgc gtc ttt	gta tca tcc	agg ttc cta	gct cga gat	agg aat ttg	atg	384
45	Arg Val Phe	Val Ser Ser	Arg Phe Leu	Ala Arg Asp	Arg Asn Leu	Met	
46	35	40	45				
48	tgg aat ggg	aga atc aag	aaa ggt ggg	aga caa agg	tgg aat ttt	ggc	432
50	Trp Asn Gly	Arg Ile Lys	Lys Gly Gly	Arg Gln Arg	Trp Asn Phe	Gly	
51	50	55	60				
53	tct tta att	gct gat cca	aga tat tca	tgc ttg ggt	gga tca aga	act	480
56	Ser Leu Ile	Ala Asp Pro	Arg Tyr Ser	Cys Leu Gly	Gly Ser Arg	Thr	
57	65	70	75				
59	gaa aag gga	agc act ttc	tct gta cag	tcc agt ttg	gtg gct agc	cca	528
61	Glu Lys Gly	Ser Thr Phe	Ser Val Gln	Ser Ser Leu	Val Ala Ser	Pro	
62	80	85	90	95			
64	gct gga gaa	atg act gtg	tca tca gag	aaa aag gtg	tat gat gtg	gta	576
66	Ala Gly Glu	Met Thr Val	Ser Ser Glu	Lys Lys Val	Tyr Asp Val	Val	
67	100	105	110				
69	tta aag cag	gca gct tta	gtg aag agg	cag ctg aga	tct acc gat	gat	624
71	Leu Lys Gln	Ala Ala Leu	Val Lys Arg	Gln Leu Arg	Ser Thr Asp	Asp	
72	115	120	125				
74	tta gaa gtg	aag ccg gat	att gtt gtt	cca ggg aat	ttg ggc ttg	ttg	672
76	Leu Glu Val	Lys Pro Asp	Ile Val Val	Pro Gly Asn	Leu Gly Leu	Leu	
77	130	135	140				
79	agt gaa gca	tat gat cgt	tgt ggc gaa	gta tgt gca	gag tat gca	aag	720

Does Not Comply
Corrected Diskette Needed

p. 4 Error

RAW SEQUENCE LISTING

DATE: 08/09/2001

PATENT APPLICATION: US/09/847,081A

TIME: 12:44:02

Input Set : A:\Mo6314 sequence-TEXT.txt

Output Set: N:\CRF3\08092001\I847081A.raw

81	Ser	Glu	Ala	Tyr	Asp	Arg	Cys	Gly	Glu	Val	Cys	Ala	Glu	Tyr	Ala	Lys	
82		145					150				155						
84	aca	ttt	tac	tta	gga	acc	aag	cta	atg	acc	cca	gag	aga	aga	aga	gct	768
86	Thr	Phe	Tyr	Leu	Gly	Thr	Lys	Leu	Met	Thr	Pro	Glu	Arg	Arg	Arg	Ala	
87	160						165				170					175	
89	atc	tgg	gca	ata	tat	gtg	tgg	tgc	agg	aga	acg	gat	gag	ctt	gtt	gat	816
91	Ile	Trp	Ala	Ile	Tyr	Val	Trp	Cys	Arg	Arg	Thr	Asp	Glu	Leu	Val	Asp	
92					180						185				190		
94	ggc	cct	aat	gca	tcc	cac	ata	act	ccg	caa	gct	tta	gat	agg	tgg	gag	864
96	Gly	Pro	Asn	Ala	Ser	His	Ile	Thr	Pro	Gln	Ala	Leu	Asp	Arg	Trp	Glu	
97					195				200					205			
99	acc	agg	ctg	gaa	gat	att	ttc	agt	ggg	cgg	cca	ttt	gat	atg	ctt	gat	912
101	Thr	Arg	Leu	Glu	Asp	Ile	Phe	Ser	Gly	Arg	Pro	Phe	Asp	Met	Leu	Asp	
102			210						215					220			
104	gct	gct	tta	tcc	gat	act	gtc	tcc	aga	ttt	cct	gtt	gat	att	cag	cca	960
106	Ala	Ala	Leu	Ser	Asp	Thr	Val	Ser	Arg	Phe	Pro	Val	Asp	Ile	Gln	Pro	
107		225					230					235					
109	ttc	aga	gat	atg	att	gaa	gga	atg	cgt	atg	gac	ttg	tgg	aaa	tcc	aga	1008
111	Phe	Arg	Asp	Met	Ile	Glu	Gly	Met	Arg	Met	Asp	Leu	Trp	Lys	Ser	Arg	
112	240					245					250				255		
114	tac	aaa	act	ttc	gat	gag	cta	tat	ctc	tat	tgt	tac	tat	gtt	gct	ggt	1056
116	Tyr	Lys	Thr	Phe	Asp	Glu	Leu	Tyr	Leu	Tyr	Cys	Tyr	Tyr	Val	Ala	Gly	
117					260					265					270		
119	act	gta	gga	ttg	atg	agt	gtt	cca	gtt	atg	ggt	att	gca	cct	gaa	tca	1104
121	Thr	Val	Gly	Leu	Met	Ser	Val	Pro	Val	Met	Gly	Ile	Ala	Pro	Glu	Ser	
122			275						280					285			
124	aag	gca	aca	aca	gag	agt	gta	tat	aat	gct	gct	ttg	gct	tta	ggg	ctt	1152
126	Lys	Ala	Thr	Thr	Glu	Ser	Val	Tyr	Asn	Ala	Ala	Leu	Ala	Leu	Gly	Leu	
127		290						295					300				
129	gca	aat	caa	cta	acc	aat	ata	ctc	aga	gat	gta	gga	gaa	gat	gcc	aga	1200
131	Ala	Asn	Gln	Leu	Thr	Asn	Ile	Leu	Arg	Asp	Val	Gly	Glu	Asp	Ala	Arg	
132		305					310					315					
134	aga	gga	aga	gta	tac	ttg	cct	caa	gat	gaa	tta	gca	cag	gca	ggg	ctc	1248
136	Arg	Gly	Arg	Val	Tyr	Leu	Pro	Gln	Asp	Glu	Leu	Ala	Gln	Ala	Gly	Leu	
137	320					325					330				335		
139	tcc	gac	gaa	gac	ata	ttt	gct	gga	aga	gtg	act	gat	aag	tgg	agg	aac	1296
141	Ser	Asp	Glu	Asp	Ile	Phe	Ala	Gly	Arg	Val	Thr	Asp	Lys	Trp	Arg	Asn	
142					340					345					350		
144	ttt	atg	aag	aaa	caa	att	cag	agg	gcg	agg	aaa	ttc	ttt	gat	gag	tca	1344
146	Phe	Met	Lys	Lys	Gln	Ile	Gln	Arg	Ala	Arg	Lys	Phe	Phe	Asp	Glu	Ser	
147			355						360					365			
149	gag	aaa	ggt	gtc	aca	gaa	ctg	gac	tct	gct	agt	aga	tgg	cct	gtg	tta	1392
151	Glu	Lys	Gly	Val	Thr	Glu	Leu	Asp	Ser	Ala	Ser	Arg	Trp	Pro	Val	Leu	
152		370						375					380				
154	aca	gcg	ctg	ctg	ttg	tat	cgc	aag	ata	ttg	gac	gag	att	gaa	gcc	aac	1440
156	Thr	Ala	Leu	Leu	Leu	Tyr	Arg	Lys	Ile	Leu	Asp	Glu	Ile	Glu	Ala	Asn	
157		385					390					395					
159	gac	tac	aac	aac	ttc	aca	agg	agg	gct	tat	gtt	agc	aag	cca	aag	aag	1488
161	Asp	Tyr	Asn	Asn	Phe	Thr	Arg	Arg	Ala	Tyr	Val	Ser	Lys	Pro	Lys	Lys	

RAW SEQUENCE LISTING

DATE: 08/09/2001

PATENT APPLICATION: US/09/847,081A

TIME: 12:44:02

Input Set : A:\Mo6314 sequence-TEXT.txt

Output Set: N:\CRF3\08092001\I847081A.raw

```

162 400          405          410          415
164 ctt ctc acc ttg ccc att gct tat gca aaa tct ctt gtg ccc cct aat 1536
166 Leu Leu Thr Leu Pro Ile Ala Tyr Ala Lys Ser Leu Val Pro Pro Asn
167          420          425          430
169 aga act tcc tct cca cta gca aag aca tga atgaagtagt tgagtcaatg 1586
171 Arg Thr Ser Ser Pro Leu Ala Lys Thr
172          435          440
174 agtattatac actaaagaaa ctcaggtagt tgtaaagtag atattcttttg ctaaagtgtg 1646
176 atcatcaaaa gtagattgta aattcaatat gacaatctct tggtagaata ttttctccac 1706
178 actcatcaaaa ccctcaagtg ag 1728
181 <210> SEQ ID NO: 2
182 <211> LENGTH: 440
183 <212> TYPE: PRT
184 <213> ORGANISM: Nicotiana tabacum
186 <400> SEQUENCE: 2
187 Met Ser Met Ser Val Ala Leu Leu Trp Val Val Ser Pro Thr Ser Glu
188 1 5 10 15
190 Val Ser Asn Gly Thr Gly Leu Leu Asp Ser Val Arg Glu Gly Asn Arg
191 20 25 30
193 Val Phe Val Ser Ser Arg Phe Leu Ala Arg Asp Arg Asn Leu Met Trp
194 35 40 45
196 Asn Gly Arg Ile Lys Lys Gly Gly Arg Gln Arg Trp Asn Phe Gly Ser
197 50 55 60
199 Leu Ile Ala Asp Pro Arg Tyr Ser Cys Leu Gly Gly Ser Arg Thr Glu
200 65 70 75 80
202 Lys Gly Ser Thr Phe Ser Val Gln Ser Ser Leu Val Ala Ser Pro Ala
203 85 90 95
205 Gly Glu Met Thr Val Ser Ser Glu Lys Lys Val Tyr Asp Val Val Leu
206 100 105 110
208 Lys Gln Ala Ala Leu Val Lys Arg Gln Leu Arg Ser Thr Asp Asp Leu
209 115 120 125
211 Glu Val Lys Pro Asp Ile Val Val Pro Gly Asn Leu Gly Leu Leu Ser
212 130 135 140
214 Glu Ala Tyr Asp Arg Cys Gly Glu Val Cys Ala Glu Tyr Ala Lys Thr
215 145 150 155 160
217 Phe Tyr Leu Gly Thr Lys Leu Met Thr Pro Glu Arg Arg Arg Ala Ile
218 165 170 175
220 Trp Ala Ile Tyr Val Trp Cys Arg Arg Thr Asp Glu Leu Val Asp Gly
221 180 185 190
223 Pro Asn Ala Ser His Ile Thr Pro Gln Ala Leu Asp Arg Trp Glu Thr
224 195 200 205
226 Arg Leu Glu Asp Ile Phe Ser Gly Arg Pro Phe Asp Met Leu Asp Ala
227 210 215 220
229 Ala Leu Ser Asp Thr Val Ser Arg Phe Pro Val Asp Ile Gln Pro Phe
230 225 230 235 240
232 Arg Asp Met Ile Glu Gly Met Arg Met Asp Leu Trp Lys Ser Arg Tyr
233 245 250 255
235 Lys Thr Phe Asp Glu Leu Tyr Leu Tyr Cys Tyr Tyr Val Ala Gly Thr
236 260 265 270

```

RAW SEQUENCE LISTING

DATE: 08/09/2001

PATENT APPLICATION: US/09/847,081A

TIME: 12:44:02

Input Set : A:\Mo6314 sequence-TEXT.txt

Output Set: N:\CRF3\08092001\I847081A.raw

238 Val Gly Leu Met Ser Val Pro Val Met Gly Ile Ala Pro Glu Ser Lys
 239 275 280 285
 241 Ala Thr Thr Glu Ser Val Tyr Asn Ala Ala Leu Ala Leu Gly Leu Ala
 242 290 295 300
 244 Asn Gln Leu Thr Asn Ile Leu Arg Asp Val Gly Glu Asp Ala Arg Arg
 245 305 310 315 320
 247 Gly Arg Val Tyr Leu Pro Gln Asp Glu Leu Ala Gln Ala Gly Leu Ser
 248 325 330 335
 250 Asp Glu Asp Ile Phe Ala Gly Arg Val Thr Asp Lys Trp Arg Asn Phe
 251 340 345 350
 253 Met Lys Lys Gln Ile Gln Arg Ala Arg Lys Phe Phe Asp Glu Ser Glu
 254 355 360 365
 256 Lys Gly Val Thr Glu Leu Asp Ser Ala Ser Arg Trp Pro Val Leu Thr
 257 370 375 380
 259 Ala Leu Leu Leu Tyr Arg Lys Ile Leu Asp Glu Ile Glu Ala Asn Asp
 260 385 390 395 400
 262 Tyr Asn Asn Phe Thr Arg Arg Ala Tyr Val Ser Lys Pro Lys Lys Leu
 263 405 410 415
 265 Leu Thr Leu Pro Ile Ala Tyr Ala Lys Ser Leu Val Pro Pro Asn Arg
 266 420 425 430
 268 Thr Ser Ser Pro Leu Ala Lys Thr
 269 435 440
 273 <210> SEQ ID NO: 3
 274 <211> LENGTH: 1712
 275 <212> TYPE: DNA
 276 <213> ORGANISM: Nicotiana tabacum
 278 <220> FEATURE:
 279 <221> NAME/KEY: CDS
 280 <222> LOCATION: (333)..(1565)
 282 <220> FEATURE:
 W--> 283 <221> NAME/KEY: Xaa — noncritical Error should be unknown or unsure
 284 <222> LOCATION: 135, 139 OK need to add location 51
 285 <223> OTHER INFORMATION: Xaa is unknown or other OK
 W--> 286 <400> SEQUENCE: 3
 W--> 287 cttgaagagt agcagcagca agcaagahaa ttaaagtggg ctatttbkka naagccattg 60
 289 ttacmagara attaagaagc caagamacag gttattttct acttgagtya ggaaaagttg 120
 291 gtttgcttta tttgtgggct ttttataatc tttttccac aagggaaagt ggggtattttc 180
 293 ttgaaagtgg atttagactc tagtgggaat ctactaggag taaatttatt aattttttat 240
 295 aaattaagca gaggaaggaa ggaaacagaa aacagaaagt aagacaaaaa accttggaat 300
 297 tgttttagaa agccaaggtt ttcctgttca aa atg tct gtt gcc ttg tta tgg 353
 298 Met Ser Val Ala Leu Leu Trp
 299 1 5
 301 gtt gtt tca cct tgt gaa gtc tca aat ggg aca gga ttc ttg gat tca 401
 303 Val Val Ser Pro Cys Glu Val Ser Asn Gly Thr Gly Phe Leu Asp Ser
 304 10 15 20
 306 gtc cgg gag gga aac cgg gtt ttt gat tcg tcg agg cat agg aat tta 449
 308 Val Arg Glu Gly Asn Arg Val Phe Asp Ser Ser Arg His Arg Asn Leu
 309 25 30 35
 311 gtg tgc aat gag aga aac aag aga ggt gtg aaa caa agg tgg aat ttt 497

Critical Error
n at location 51 is not
described.
Error

RAW SEQUENCE LISTING

DATE: 08/09/2001

PATENT APPLICATION: US/09/847,081A

TIME: 12:44:02

Input Set : A:\Mo6314 sequence-TEXT.txt

Output Set: N:\CRF3\08092001\I847081A.raw

```

313 Val Cys Asn Glu Arg Asn Lys Arg Gly Val Lys Gln Arg Trp Asn Phe
314 40 45 50 55
316 ggt tct gta agg tct gct atg gtg gct aca ccg gcg gga gaa atg gcg 545
318 Gly Ser Val Arg Ser Ala Met Val Ala Thr Pro Ala Gly Glu Met Ala
319 60 65 70
321 acg atg aca tca gaa cag atg gtt tat gat gtg gtt tta aaa caa gca 593
323 Thr Met Thr Ser Glu Gln Met Val Tyr Asp Val Val Leu Lys Gln Ala
324 75 80 85
326 gct tta gtg aag agg cag ttg aga tct gct gat gat tta gaa gtg aag 641
328 Ala Leu Val Lys Arg Gln Leu Arg Ser Ala Asp Asp Leu Glu Val Lys
329 90 95 100
331 ccg gag atc cct ctc ccc ggg aat ttg agc ttg ttg agt gaa gca tat 689
333 Pro Glu Ile Pro Leu Pro Gly Asn Leu Ser Leu Leu Ser Glu Ala Tyr
334 105 110 115
336 gat agg tgt agt gaa gta tgt gca gag tat gca aag aca ttt tac tth 737
W--> 338 Asp Arg Cys Ser Glu Val Cys Ala Glu Tyr Ala Lys Thr Phe Tyr Xaa
339 120 125 130 135
341 gga acc atg yta atg act cca gag aga aga agg gct att tgg gca ata 785
W--> 343 Gly Thr Met Xaa Met Thr Pro Glu Arg Arg Arg Ala Ile Trp Ala Ile
344 140 145 150
346 tat gtg tgg tgc agg aga aca gat gaa ctt gtt gat ggc cca aac gca 833
348 Tyr Val Trp Cys Arg Arg Thr Asp Glu Leu Val Asp Gly Pro Asn Ala
349 155 160 165
351 tca cat att aca ccc caa gcc tta gat agg tgg gaa gac cgg ctt gaa 881
353 Ser His Ile Thr Pro Gln Ala Leu Asp Arg Trp Glu Asp Arg Leu Glu
354 170 175 180
356 gat gtt ttc agc ggg cga cca ttt gat atg ctc gat gct gct ttg tcc 929
358 Asp Val Phe Ser Gly Arg Pro Phe Asp Met Leu Asp Ala Ala Leu Ser
359 185 190 195
361 gat act gtt tcc aag ttt cca gtt gat att cag ccg ttc aga gat atg 977
363 Asp Thr Val Ser Lys Phe Pro Val Asp Ile Gln Pro Phe Arg Asp Met
364 200 205 210 215
366 att gaa gga atg cgt atg gac ttg agg aag tca aga tat aga aac ttt 1025
368 Ile Glu Gly Met Arg Met Asp Leu Arg Lys Ser Arg Tyr Arg Asn Phe
369 220 225 230
371 gat gag ctt tac ctc tat tgt tat tac gtt gct ggt acg gtt ggg ttg 1073
373 Asp Glu Leu Tyr Leu Tyr Cys Tyr Tyr Val Ala Gly Thr Val Gly Leu
374 235 240 245
376 atg agt gtt cca att atg ggt att gca cct gat tca aag gca aca aca 1121
378 Met Ser Val Pro Ile Met Gly Ile Ala Pro Asp Ser Lys Ala Thr Thr
379 250 255 260
381 gag agc gta tat aat gca gct ttg gct tta gga atc gca aat caa cta 1169
383 Glu Ser Val Tyr Asn Ala Ala Leu Ala Leu Gly Ile Ala Asn Gln Leu
384 265 270 275
386 acg aac ata ctc aga gat gtt gga gaa gat gcc aga aga gga aga gtc 1217
388 Thr Asn Ile Leu Arg Asp Val Gly Glu Asp Ala Arg Arg Gly Arg Val
389 280 285 290 295
391 tac tta cct caa gat gaa tta gca cag gca ggt ctc ttc gac gat gac 1265
393 Tyr Leu Pro Gln Asp Glu Leu Ala Gln Ala Gly Leu Phe Asp Asp Asp

```

VERIFICATION SUMMARY

DATE: 08/09/2001

PATENT APPLICATION: US/09/847,081A

TIME: 12:44:04

Input Set : A:\Mo6314 sequence-TEXT.txt

Output Set: N:\CRF3\08092001\I847081A.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:283 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:286 M:283 W: Missing Blank Line separator, <400> field identifier
L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:442 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:892 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:5